



GEN. EXH.

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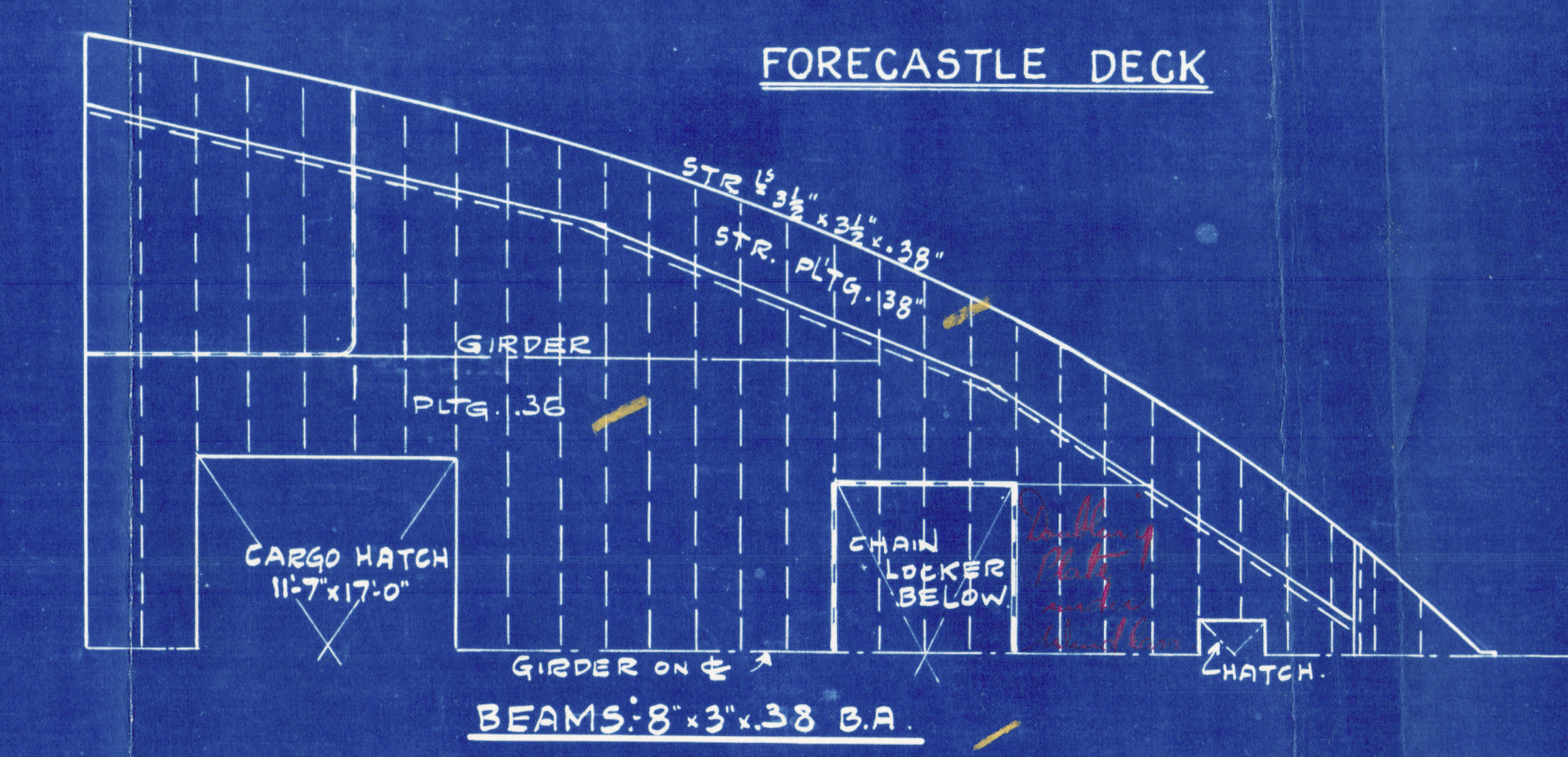
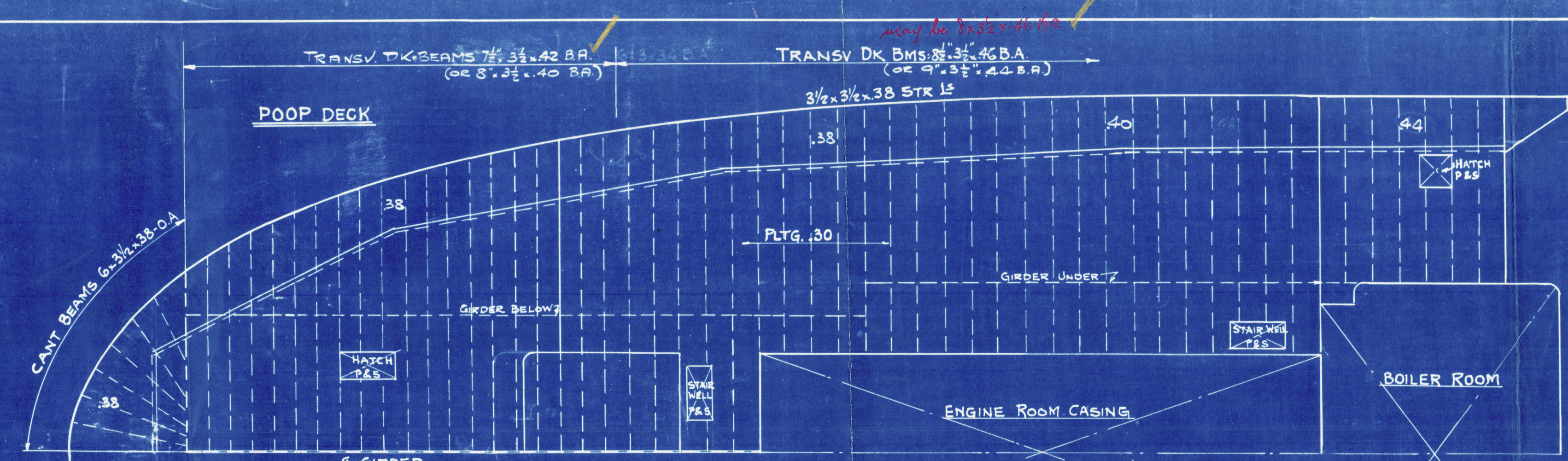


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Lloyd's Register
Foundation

PRELIM

004194-004199-0058



ENGINE SCANTLING
 WEBS TO BE PLATE 30" x 160"
 DAL 1/2" x 1/2" x 1/2"
 SHELL 1/2" x 1/2" x 1/2"
 WEBS - 50% UP DK 18" x 3/8"
 SN 1/2" x 1/2" x 1/2"
 SHELL 1/2" x 1/2" x 1/2"
 STRINGER 30" x 3/8"
 SN 1/2" x 1/2" x 1/2"
 INT PERMS 20" x 1/2" x 1/2"
 UPDK 20" x 1/2" x 1/2"
 80" TO TANK TOP 30" x 1/2" x 1/2"

FORE PEAK SCANTLING
 FRAMES 20" x 1/2" x 1/2"
 BEAM KEEPS 20" x 1/2" x 1/2"
 STEM 10" x 1/2" x 1/2"
 FLOORS 1/2" x 1/2" x 1/2"
 STRINGER 30" x 1/2" x 1/2"
 STRENGTH 1/2" x 1/2" x 1/2"
 BEAST HOOKS 1/2" x 1/2" x 1/2"
 PANTING BEAMS 10" x 1/2" x 1/2"

PRINCIPAL DIMENSIONS

LENGTH OVER ALL	490'-6"
" - WATER LINE	479'-0"
" - BETWEEN PERPS	465'-0"
BEAM MOLDED	65'-0"
DEPTH	34'-3"
DRAFT	27'-9"

PLAN OF PANTING ARRANGEMENT TO BE SUBMITTED

SCANTLING BETWEEN PERPS 100 & 135
 PERPS IN DEEP TANK 10" x 1/2" x 1/2"
 BEAM KEEPS 20" x 1/2" x 1/2"
 FLOORS 1/2" x 1/2" x 1/2"
 SIDE KEEPS 1/2" x 1/2" x 1/2"
 PERPS ATTACH TO UPDK 10" x 1/2" x 1/2"
 BEAM KEEPS 20" x 1/2" x 1/2"
 WEBS 20" x 1/2" x 1/2"
 SHELL 1/2" x 1/2" x 1/2"
 DAL FACE 1/2" x 1/2" x 1/2"
 PAINT STRINGER 20" x 1/2" x 1/2"
 SHELL 1/2" x 1/2" x 1/2"
 SN 1/2" x 1/2" x 1/2"

APPROVED
 OCT 19 1935
 LLOYD'S REGISTER OF SHIPPING
 NEW YORK

PLAN PRINTS

NO.	DEPT.	NO.	DEPT.	NO.	DEPT.	NO.	DEPT.
1	PLAN	2	PLAN	3	PLAN	4	PLAN
5	PLAN	6	PLAN	7	PLAN	8	PLAN
9	PLAN	10	PLAN	11	PLAN	12	PLAN

HULL DIVISION

PROFILE & DECK PLAN

SCALE - ARROW - 1/4" = 1 FT
 SCALE - DETAIL - 1/8" = 1 FT
 DATE - 8-22-35
 DESIGNED - [Signature]
 CHECKED - [Signature]
 APPROVED - [Signature]

SUN SHIPBUILDING & DRYDOCK CO.
 CHESTER, PA. U.S.A.

DR. NO. 163-700-CA

RETAIN

Handwritten: 10/1/1957

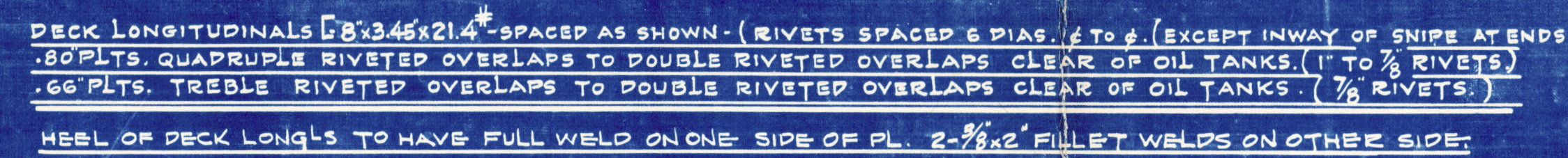
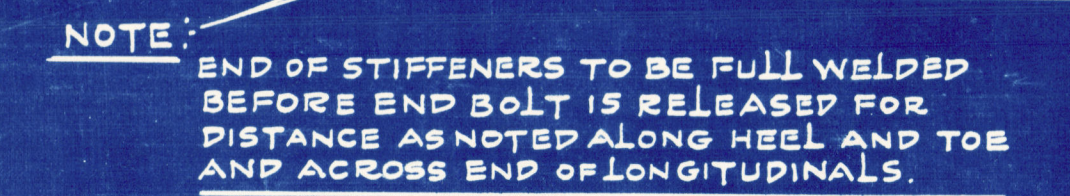
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NOTE: SHEERSTRAKE AND STRINGER PLATING
AT POOP AND BRIDGE ENDS INCREASED
AS PER RULE.

6" x 6" x 8' TO 1'3 1/2" x 3 1/2" x 44' AT ENDS.
S SPACED 5 DIAS. @ TO @.

RIVETS IN LONGITUDINALS: #1-#2.
DOUBLINGS SPACED 3 DIAS. FOR 8 RIVS.
EACH SIDE OF TRANSV. BULKHEADS,
4 DIAS. THROUGH DOUBLINGS &
6 DIAS. ELSEWHERE.

RIVETS IN LONGITUDINALS: # 3-# 4.
SPACED 3 DIAS. FOR 8 RIVETS
EACH SIDE OF TRANSV. BULKHEADS,
& 6 DIAS. ELSEWHERE.

RIVETS IN LONGITUDINALS: $5 \frac{5}{8} - 6 \frac{7}{8}$.
DOUBLINGS SPACED 3 DIAS. FOR 8
RIVS. EACH SIDE OF TRANSV. BULK-
HEADS, $4 \frac{1}{2}$ DIAS. FOR 10 RIVS EACH
SIDE OF TRANSV. FRAMES, 4 DIAS.
THROUGH DOUBLINGS, & 6 DIAS.
ELSEWHERE.

RIVETS IN LONGITUDINALS: # 8-9.
SPACED 3 DIAS. FOR 8 RIVS EACH
SIDE OF TRANSV. BULKHEADS, AND
4½ DIAS. FOR 10 RIVETS EACH
SIDE OF TRANSV. FRAMES, AND
6 DIAS. ELSEWHERE.

RIVETS IN LONGITUDINALS. 10-11-12-13
SPACED 3 DIAS. FOR 8 RIVS. EACH
SIDE OF TRANSV. BULKHEADS,
3 1/2 DIAS. FOR 10 RIVS. EACH SIDE
OF TRANSV. FRAMES, 4 DIAS.
THROUGH DOUBLINGS, & 6 DIAS.
ELSEWHERE

RIVS. TO SHELL $\frac{7}{8}$ " DIA. SPACED
5 DIAS. RIVS. IN LAP CONN. OF
T-BAR AND BULB PLT. $\frac{7}{8}$ RIVS.
SPACED 7 DIAS.
CUT T-BAR FLG. TO SHELL INWAY
OF BULKHEADS, FRAMES AND,
BUTT LAPS.

RIVETS IN NO. 1 TANK IN DOUBLING SPACED 3 DIAS. FOR RIVETS EACH SIDE OF TRANSV. BULKHEADS, 4 DIAS. THROUGH DOUBLINGS, RIVETS CLEAR OF DOUBLINGS $3\frac{1}{2}$ DIAS. FOR 10 RIVS. EACH SIDE OF TRANSV. FRAMES, AND 4 DIAS. ELSEWHERE.

FLAT KEEL - PLTG - 98'X55" TO .82" AT ENDS. BUTTS: QUINTUPLE RIVETED OVERLAPS TO QUADRUPLE OVERLAPS AT ENDS.
BILGE STRAKE PLTG - .83" - BUTTS: QUINTUPLE RIVETED OVERLAPS TO TREBLE OVERLAPS AT ENDS.
BOTTOM PLTG (AS NOTED) TO .48 AT ENDS - BUTTS: QUADRUPLE RIVETED OVERLAPS TO TREBLE RIVETED OVERLAPS AT ENDS.
3 STRAKES NEXT TO KEEL (AS NOTED) FROM 3/5 FORWARD TO COLLISION BULK HEAD.
UNDERBOWS NO 14 TO NO 35 INCLUDING - 30"X32"X.125" RIVETED TREBLE

RIVETS IN LONGITUDINALS INWAY OF DOUBLINGS SPACED 3 DIAS. 4 TO 4 FOR 8 RIVETS EACH SIDE OF TRANSV.BRDS. 4 DIAS. THROUGH DOUBLINGS. RIVETS CLEAR OF DOUBLINGS SPACED 3 DIAS. 4 TO 4 FOR 10 RIVETS EACH SIDE OF TRANSV.FRAMES, AND 6 DIAS. 4 TO 4 ELSEWHERE.

10255-1

NOTES.

1-TANKS 35"Ø
2-TANKS 35"ØS: 6"Ø-11"Ø-11"Ø-6"Ø-
3-RIVETING AS PER PLAN
4-ALL CUT OUTS TO BE WELL ROUNDED
5-LIGHTENING HOLES 8" CLEAR OF CUT
OUTS AS MINIMUM.

GENERAL DIMENSIONS	
LENGTH: B.P.	51'-0"
BREADTH MOLDED	65'-9"
DEPTH MOLDED	37'-0"

TO CLASS MAIL OIL CARRIER
EQUIPMENT TO BE SUBMITTED

CLASSIFICATION.

- ✱ A1 @ BULK OIL CARRIER - A.B.S.
- ✱ 100 A1 LLOYDS - CARRYING PETROLEUM IN BULK.

ISHERWOOD BRACKETLESS SYSTEM.

EQUIPMENT.

2 BOWER ANCHOR	11.340
1 SPARE BOWER ANCHOR	9.660
1 STREAM ANCHOR	4.060
300 FATHOMS - 3/8" STUD CHAIN CABLE	
105 FATHOMS - 5" STEEL WIRE STREAM	
130 FATHOMS - 5/8" CIR STEEL WIRE TOWLINE	
90 FATHOMS - 8/8" CIR MANILA HAWSEYS	
90 FATHOMS - 7/8" CIR MANILA WAREPS	
ALTERNATIVE - 300 FATHOMS	
2 1/2 CAST STEEL OR DI-LOCK	
CHAIN	

W. J. Texas Sun.
HULL DIVISION

MIDSHIP SECTION

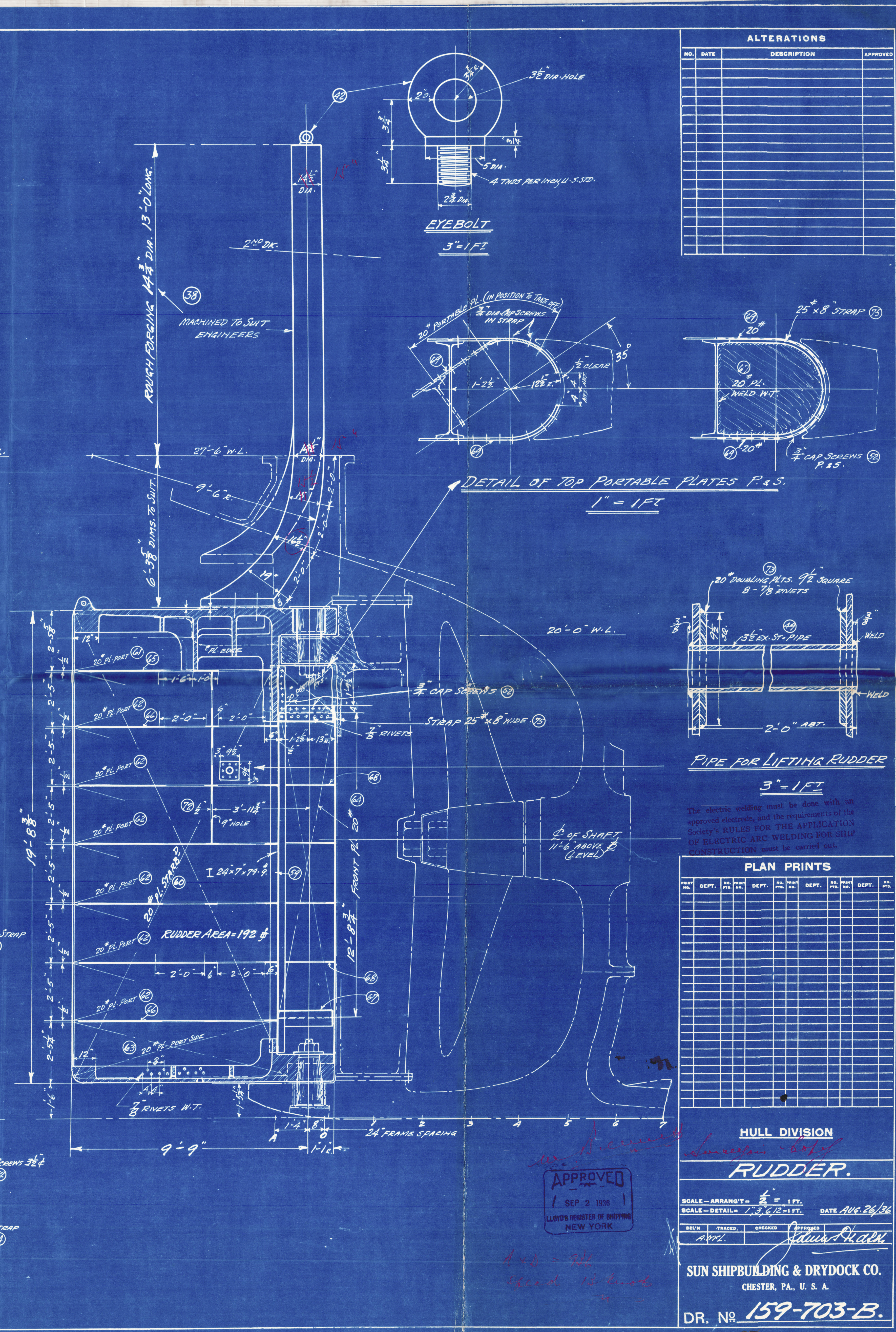
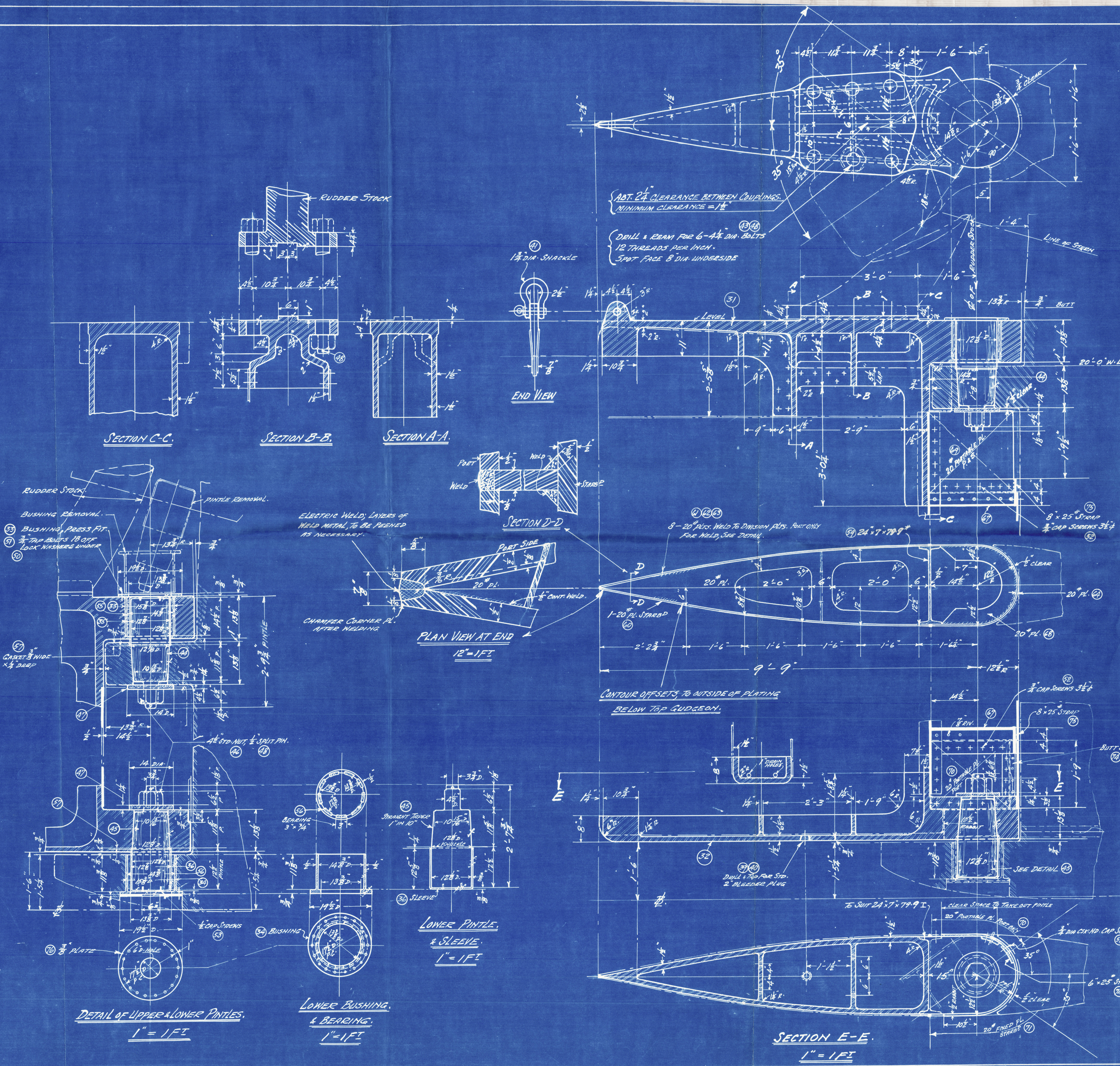
SCALE - ARRANG'E = $\frac{1}{2}$ " = 1 FT.
SCALE - DETAIL = 1" = 1 FT. DATE 8-12-34

DEAN	TRACES	CHECKED	APPROVED
FAC	FAC	<i>Wesley H. Haddon</i>	

SUN SHIPBUILDING & DRYDOCK CO.
CHESTER, PA., U. S. A.

DR. No. 159-27001-BA

004194-004199-0057



ALTERATIONS				BILL OF MATERIAL			
NO.	DATE	DESCRIPTION	APPROVED	NO.	NAME	MATERIAL	REMARKS
31		RUDDER UPPER CASTING		1	CAST STEEL	159-703-31	ANNOUNCED TO PERS. A.B.S. &
32		RUDDER LOWER CASTING		1	CAST STEEL	159-703-32	ANNOUNCED TO PERS. A.B.S. &
33		FLANGED BUSHING TOP		1	COMP. G.	159-703-33	LONG OVERALL.
34		FLANGED BUSHING BOTTOM		1	COMP. G.	159-703-34	LONG OVERALL.
35		PINTLE SLEEVE TOP		1	COMP. G.	159-703-35	LONG OVERALL.
36		PINTLE SLEEVE BOT.		1	COMP. G.	159-703-36	LONG OVERALL.
37		RUDDER STOCK		1	WRO. ST.	TO A.B.S. AND	LLOYD'S REQUIREMENTS.
38		KEY FOR PLUG		1	WRO. ST.	5-PH. STAMP	
39		BLINDER PLUG		1	STEEL	5-PH. STAMP	
40		1/2" DIA. ANCHOR SHACKLE		1	STEEL	2-PH. STAMP	AS DRAWN
41		2 1/2" DIA. EYEBOLT		1	STEEL	AS DRAWN	AS DRAWN
42		1/2" DIA. HEX. NUT		1	STEEL	AS DRAWN	AS DRAWN
43		1/2" DIA. HEX. BOLT		1	STEEL	AS DRAWN	AS DRAWN
44		PINTLE TOP		1	STEEL	AS DRAWN	AS DRAWN
45		PINTLE BOT.		1	STEEL	AS DRAWN	AS DRAWN
46		PINTLE NUT		2	STEEL	AS DRAWN	AS DRAWN
47		PINTLE WASHER		2	STEEL	AS DRAWN	AS DRAWN
48		SPLIT PIN		8	STEEL	AS DRAWN	AS DRAWN
49		3/8" EXT. SPRING PIPE		1	STEEL	AS DRAWN	AS DRAWN
50		3/8" LOCK WASHER SPECIAL		36	SPR. STEEL	SHAKE PROOF	AS DRAWN
51		3/8" DIA. TOP BOLTS, HEX. HD.		36	STEEL	AS DRAWN	AS DRAWN
52		3/8" DIA. CAP SCREW, CAR. HD.		36	STEEL	AS DRAWN	AS DRAWN
53		3/8" DIA. CAP SCREW, CAR. HD.		4	BRASS	AS DRAWN	AS DRAWN
54		BEARING TOP		9	LEAD. WOOD	AS DRAWN	AS DRAWN
55		BEARING BOTTOM		9	LEAD. WOOD	AS DRAWN	AS DRAWN
56		GASKET		2	LEAD. WOOD	AS DRAWN	AS DRAWN
57		T. BORN STIFFENER		1	U.S. M.	AS DRAWN	AS DRAWN
58		STIFFENING PL.		1	U.S. M.	AS DRAWN	AS DRAWN
59		PORT PLATE TOP		1	U.S. M.	AS DRAWN	AS DRAWN
60		PORT PLATE MIDDLE		6	U.S. M.	AS DRAWN	AS DRAWN
61		PORT PLATE BOT.		1	U.S. M.	AS DRAWN	AS DRAWN
62		PORT PLATE		1	U.S. M.	AS DRAWN	AS DRAWN
63		DIVISION PLATE TOP		1	U.S. M.	AS DRAWN	AS DRAWN
64		DIVISION PLATE MIDDLE		6	U.S. M.	AS DRAWN	AS DRAWN
65		DIVISION PLATE BOT.		2	U.S. M.	AS DRAWN	AS DRAWN
66		PORT DIVISION PL. MIDDLE		4	U.S. M.	AS DRAWN	AS DRAWN
67		PORTABLE PL. TOP		2	U.S. M.	AS DRAWN	AS DRAWN
68		PORTABLE PL. BOT.		1	U.S. M.	AS DRAWN	AS DRAWN
69		FINED PL. FRONT		1	U.S. M.	AS DRAWN	AS DRAWN
70		STIFFENING PL.		3	U.S. M.	AS DRAWN	AS DRAWN
71		CORNERING PL. AT PIPE		2	U.S. M.	AS DRAWN	AS DRAWN
72		BUTT STRAP		1	U.S. M.	AS DRAWN	AS DRAWN
73		BUTT STRAP		2	U.S. M.	AS DRAWN	AS DRAWN
74		PINTLE KEEPER PL.		1	U.S. M.	AS DRAWN	AS DRAWN

GENERAL NOTES.

- 1- RUDDER TO COMPLY WITH A.B.S. & LLOYD'S TESTS & REQUIREMENTS.
- 2- ALL NECESSARY TOLERANCES FOR MAKING PATTERNS, FURNISHED BY MOLD LFT.
- 3- RIVET HOLES & TAPS TO BE DRILLED BY HAND.
- 4- PERMISSIBLE VARIATION IN STREAM-LINE CONTOURS = ± 8"
- 5- INSIDE OF RUDDER TO BE COATED WITH APEXIDE.

MATERIAL				B M PRINTS			
NO.	DEPT.	NO.	DEPT.	NO.	DEPT.	NO.	DEPT.
159	703-457						

HULL DIVISION
RUDDER.
 SCALE - ARRANG'T = 1/2" = 1 FT.
 SCALE - DETAIL = 1/8" = 1 FT.
 DATE AUG. 26/36
 DR. NO. 159-703-B.